Journal of Non-Crystalline Solids 123 (1990) 435–437
North-Holland

AUTHOR INDEX

Akasaka, Y., see Yasui 123 (1990) 71
Aleksandrov, I.V., Z.V. Nesterova and G.T. Petrovskii, Non-linear optical investigations of glass structure 123 (1990) 223
Altshuler, G.B., V.A. Bakhanov, E.G. Dulneva and G.P. Roskova, Porous glass optics 123 (1990) 266
Arbuzov, V.I. and M.N. Tolstoi, Photochemical properties of activated glass 123 (1990) 258
Avramov, I., see Gutzow 123 (1990) 97

Bakhanov, V.A., see Altshuler 123 (1990) 266
Bastow, T.J., see Uhlherr 123 (1990) 42
Battaglin, G., S. Lo Russo, A. Paccagnella, P. Polato and G. Principi, Kr-induced mixing and annealing effects at the Fe/SiO_2 interface 123 (1990) 427
Boksay, Z., Effect of mixing mobile ions in glasses on transport processes 123 (1990) 324
Bray, P.J., see Gravina 123 (1990) 165

Chryssikos, G.D., see Kamitsos 123 (1990) 283
Cooper, A.R., see Gupta 123 (1990) 14

Dalba, G., P. Fornasini and F. Rocca, Short range order in $AgI:Ag_2O:B_2O_3$ glasses: results from EXAFS and related techniques 123 (1990) 310
De Jong, B.H.W.S., R. Janssen and W.S. Veeman, Remembrances of things past; silicon and sodium local environments in sols, gels, glasses and aqueous solutions 123 (1990) 170
De Marchi, G., P. Mazzoldi and A. Miotello, Ionic conductivity in glass network 123 (1990) 321
Debnath, R. and S. Kumar, Dual luminescence of Cu^+ in glass 123 (1990) 271
Dokuchaev, V.G., see Glebov 123 (1990) 234
Drummond III, C.H., Glass formation and crystallization in high-temperature glass-ceramics and Si_3N_4 123 (1990) 114
Dulneva, E.G., see Altshuler 123 (1990) 266

Eckert, H., see Kennedy 123 (1990) 328
Elliott, S.R., Non-diffraction spectroscopic probes of the structure of amorphous solids 123 (1990) 149

Fontaine, A., see Lee 123 (1990) 295
Fontana, A., R. Rocca and A. Tomasi, Light scattering in AgI containing superionic glasses 123 (1990) 230
Fornasini, P., see Dalba 123 (1990) 310
Fukumi, K., see Sakka 123 (1990) 176

Galeener, F.L., The structure and vibrational excitations of simple glasses 123 (1990) 182
Gan, F., New glass-forming systems and their practical application 123 (1990) 285
Gladden, L.F., Computer-modelling studies of 4–2 coordinated glasses 123 (1990) 22
Glebov, L.B., V.G. Dokuchaev and M.A. Petrov, The photostimulated reorientation of color centers in silicate glasses 123 (1990) 234
Gravina, S.J., P.J. Bray and G.L. Petersen, Pure nuclear quadrupole resonance spectroscopy studies of the structure of glasses 123 (1990) 165
Guillemet, C., Annealing and tempering of glass 123 (1990) 415
Gupta, P.K. and A.R. Cooper, Topologically disordered networks of rigid polytopes 123 (1990) 14
Gutzow, I., I. Avramov and K. Kästner, Glass formation and crystallization 123 (1990) 97

Hasegawa, H., see Yasui 123 (1990) 71
Hogarth, C.A. and M.N. Khan, The role of rare-earth ions in electronically conducting glasses 123 (1990) 339
Höland, W., see Vogel 123 (1990) 349
Hyde, J.M., see Tomozawa 123 (1990) 197

Janssen, R., see De Jong 123 (1990) 170

Kadono, K., H. Kageyama, N. Kamijo and H. Tanaka, EXAFS study on zinc halide glasses 123 (1990) 291
Kageyama, H., see Kadono 123 (1990) 291
Kamijo, N., see Kadono 123 (1990) 291
Kamitsos, E.I., G.D. Chryssikos and M.A. Karakassides, New insights into the structure of akali borate glasses 123 (1990) 283
Kaps, Ch., Peculiarities of alkali/thallium ion exchange in oxide glasses: aspects of ther-

0022-3093/90/$03.50 © 1990 – Elsevier Science Publishers B.V. (North-Holland)

modynamics and kinetics for generation of optical waveguide layers 123 (1990) 315
Karakassides, M.A., see Kamitsos 123 (1990) 283
Kästner, K., see Gutzow 123 (1990) 97
Kennedy, J.H., Z. Zhang and H. Eckert, Ionically conductive sulfide-based lithium glasses 123 (1990) 328
Khan, M.N., see Hogarth 123 (1990) 339
Khodakovskaya, R.Ya., Polyanionic glasses: The features of properties and structure 123 (1990) 275
Konstantinov, A.V., L.V. Maksimov, A.R. Silin and O.V. Yanush, Medium-range order of radiation modified silica glasses studied by spectroscopic and optical methods 123 (1990) 286
Kozuka, H., see Sakka 123 (1990) 176
Kreidl, N.J., Recent applications of glass science 123 (1990) 377
Kumar, S., see Debnath 123 (1990) 271

Lee, J.M., M.A. Paesler, D.E. Sayers and A. Fontaine, Kinetic X-ray absorption studies and computer structural modelling of photo-darkening in amorphous arsenic sulfide 123 (1990) 295
Lo Russo, S., see Battaglin 123 (1990) 427

MacFarlane, D.R., see Uhlherr 123 (1990) 42
Maksimov, L.V., see Konstantinov 123 (1990) 286
Mazzoldi, P., see De Marchi 123 (1990) 321
McGahay, V., see Tomozawa 123 (1990) 197
Miotello, A., see De Marchi 123 (1990) 321
Miyaji, F., see Sakka 123 (1990) 176

Nesterova, Z.V., see Aleksandrov 123 (1990) 223

Paccagnella, A., see Battaglin 123 (1990) 427
Paesler, M.A., see Lee 123 (1990) 295
Paul, A., Oxidation–reduction equilibrium in glass 123 (1990) 354
Petersen, G.L., see Gravina 123 (1990) 165
Petrov, M.A., see Glebov 123 (1990) 234
Petrovskii, G.T., see Aleksandrov 123 (1990) 223
Petrovskii, G.T., On the optical properties of glasses 123 (1990) 240
Polato, P., see Battaglin 123 (1990) 427
Porai-Koshits, E.A., Genesis of concepts on structure of inorganic glasses 123 (1990) 1
Principi, G., see Battaglin 123 (1990) 427

Rekhson, S.M., Computer modeling of glass behavior 123 (1990) 26
Rocca, F., see Dalba 123 (1990) 310
Rocca, R., see Fontana 123 (1990) 230
Roskova, G.P., see Altshuler 123 (1990) 266

Saito, Y., see Yasui 123 (1990) 71
Sakka, S., H. Kozuka, K. Fukumi and F. Miyaji, Structures of gallate, aluminate and titanate glasses 123 (1990) 176
Sayers, D.E., see Lee 123 (1990) 295
Scherer, G.W., Theories of relaxation 123 (1990) 75
Shiff, V.K., Computation simulation of ionic liquid transition into vitreous state by the Monte Carlo method 123 (1990) 36
Silin, A.R., see Konstantinov 123 (1990) 286
Soga, N., New methods of forming glasses and related amorphous solids 123 (1990) 363
Soules, T.F., Computer simulation of glass structures 123 (1990) 48
Stanĕk, J., Problems in electric melting of glass 123 (1990) 400

Tanaka, H., see Kadono 123 (1990) 291
Tolstoi, M.N., see Arbuzov 123 (1990) 258
Tomasi, A., see Fontana 123 (1990) 230
Tomozawa, M., V. McGahay and J.M. Hyde, Phase separation of glasses 123 (1990) 197
Trukhin, A.N., Localized states of silicon dioxide, sodium and lead silicate glasses 123 (1990) 250

Uhlherr, A., D.R. MacFarlane and T.J. Bastow, Molecular dynamics and ^{19}F NMR investigation of mixed alkali fluoride glasses 123 (1990) 42
Uhlmann, D.R., see Weinberg 123 (1990) 90

Varshal, B.G., Viscosity of aluminosilicate glasses of $R_2O(RO) \cdot Al_2O_3 \cdot 6SiO_2$ composition 123 (1990) 344
Veeman, W.S., see De Jong 123 (1990) 170
Vogel, W. and W. Höland, Development, structure, properties and application of glass-ceramics for medicine 123 (1990) 349

Wang, B., see Wang 123 (1990) 432
Wang, C. and B. Wang, Influence of ion-implantation on crystallization of $PbO–B_2O_3–ZnO$ glass 123 (1990) 432
Weber, M.J., Science and technology of laser glass 123 (1990) 208
Weinberg, M.C., B.J. Zelinski, D.R. Uhlmann and E.D. Zanotto, Critical cooling rate calculations for glass formation 123 (1990) 90

Wright, A.C., Diffraction studies of glass structure 123 (1990) 129

Yanush, O.V., see Konstantinov 123 (1990) 286

Yasui, I., H. Hasegawa, Y. Saito and Y. Akasaka, Structure of borate glasses containing heavy metal ions 123 (1990) 71

Zanotto, E.D., see Weinberg 123 (1990) 90

Zelinski, B.J., see Weinberg 123 (1990) 90

Zhang, Z., see Kennedy 123 (1990) 328

Journal of Non-Crystalline Solids 123 (1990) 438–441
North-Holland

SUBJECT INDEX

Alloys
Optical Properties, Defects, Silicates 123 (1990) 234

Applications
Applications 123 (1990) 377

Borates
Borates 123 (1990) 165
EXAFS, Ionic Conductivity 123 (1990) 310
Raman Spectra, Infra-red Absorption 123 (1990) 283
Silicates, Oxides, X-ray Absorption, X-ray Diffraction, EXAFS, Structure 123 (1990) 1

Chalcogenides
Computer Simulation, Silica 123 (1990) 22
Ionic Conductivity, Nuclear Magnetic Resonance 123 (1990) 328
Nuclear Magnetic Resonance, X-ray Absorption, Oxides, Semiconductors 123 (1990) 149
X-ray Absorption, Photoinduced Effects, Structure 123 (1990) 295

Computer Simulation
Chalcogenides, Silica 123 (1990) 22
Glass Transition 123 (1990) 26
Mixed-alkali Effect 123 (1990) 324

Crystallization
Glass Ceramics, Growth Kinetics, Microstructure 123 (1990) 114
Glass Transition, Silica, Germania, Quenching 123 (1990) 90
Ion Implantation, Oxides, Sputtering 123 (1990) 432
Oxides, Electrochemical Properties, Silicates, Phosphates 123 (1990) 349

Defects
Optical Properties, Alloys, Silicates 123 (1990) 234
Silicates 123 (1990) 250

Dielectric Properties
Phase Separation, Thermodynamics 123 (1990) 197

Diffusion
Ion Exchange, Refractive Index 123 (1990) 315

Electrical Properties and Relaxation
Glass Formation, Optical Properties 123 (1990) 285

Electrochemical Properties
Oxides, Crystallization, Silicates, Phosphates 123 (1990) 349

Electronic Conductivity
Germanates, Phosphates, Optical Properties, Infra-red Absorption 123 (1990) 339

Electronic Structure
Luminescence, Optical Properties, Glasses Containing Transition Metal Ions 123 (1990) 271

EXAFS
Borates, Ionic Conductivity 123 (1990) 310
Halide Glasses, Structure 123 (1990) 291
Silicates, Borates, Oxides, X-ray Absorption, X-ray Diffraction, Structure 123 (1990) 1

Expansion
Silicates, Hardness, Glass Transition, Structure 123 (1990) 275

Fabrication
Glass Formation, Halide Glasses, Hydrogen Effects, Ion Treatment, Molecular Dynamics 123 (1990) 363

Fluorides
Nuclear Magnetic Resonance, Mixed-alkali Effect, Ionic Conductivity 123 (1990) 42

Germanates
Phosphates, Optical Properties, Infra-red Absorption, Electronic Conductivity 123 (1990) 339

Germania
Glass Transition, Crystallization, Silica, Quenching 123 (1990) 90
Raman Spectra, Infra-red Absorption, Neutron Diffraction 123 (1990) 182

Glass Ceramics
Crystallization, Growth Kinetics, Microstructure 123 (1990) 114

Glass Formation
Fabrication, Halide Glasses, Hydrogen Effects, Ion Treatment, Molecular Dynamics 123 (1990) 363

0022-3093/90/$03.50 © 1990 – Elsevier Science Publishers B.V. (North-Holland)

Glass Transition, Glasses Containing Transition Metal Ions 123 (1990) 97
Optical Properties, Electrical Properties and Relaxation 123 (1990) 285

Glass Transition
Computer Simulation 123 (1990) 26
Crystallization, Silica, Germania, Quenching 123 (1990) 90
Glass Formation, Glasses Containing Transition Metal Ions 123 (1990) 97
Molecular Dynamics, Structure 123 (1990) 48
Relaxation, Theory 123 (1990) 75
Silicates, Hardness, Expansion, Structure 123 (1990) 275

Glasses Containing Transition Metal Ions
Glass Formation, Glass Transition 123 (1990) 97
Luminescence, Optical Properties, Electronic Structure 123 (1990) 271
Photoinduced Effects, Luminescence, Oxides 123 (1990) 258

Growth Kinetics
Crystallization, Glass Ceramics, Microstructure 123 (1990) 114

Halide Glasses
EXAFS, Structure 123 (1990) 291
Glass Formation, Fabrication, Hydrogen Effects, Ion Treatment, Molecular Dynamics 123 (1990) 363
Molecular Dynamics, Silicates 123 (1990) 36

Hardness
Silicates, Expansion, Glass Transition, Structure 123 (1990) 275

Hydrogen Effects
Glass Formation, Fabrication, Halide Glasses, Ion Treatment, Molecular Dynamics 123 (1990) 363

Infra-red Absorption
Germanates, Phosphates, Optical Properties, Electronic Conductivity 123 (1990) 339
Raman Spectra, Borates 123 (1990) 283
Raman Spectra, Neutron Diffraction, Germania 123 (1990) 182

Ion Exchange
Diffusion, Refractive Index 123 (1990) 315

Ion Implantation
Mössbauer Effect, Thin Films 123 (1990) 427
Oxides, Sputtering, Crystallization 123 (1990) 432

Ion Treatment
Glass Formation, Fabrication, Halide Glasses, Hydrogen Effects, Molecular Dynamics 123 (1990) 363

Ionic Conductivity
Chalcogenides, Nuclear Magnetic Resonance 123 (1990) 328
EXAFS, Borates 123 (1990) 310
Mixed-alkali Effect 123 (1990) 321
Nuclear Magnetic Resonance, Fluorides, Mixed-alkali Effect 123 (1990) 42
Raman Spectra, Oxides 123 (1990) 230
Silicates, Thermal Conductivity, Transport Properties – Liquids 123 (1990) 400

Lasers
Silica, Silicates, Luminescence 123 (1990) 208

Light Scattering
Porosity, Refractive Index, Silicates 123 (1990) 266

Luminescence
Lasers, Silica, Silicates 123 (1990) 208
Optical Properties, Electronic Structure, Glasses Containing Transition Metal Ions 123 (1990) 271
Photoinduced Effects, Glasses Containing Transition Metal Ions, Oxides 123 (1990) 258

Microstructure
Crystallization, Glass Ceramics, Growth Kinetics 123 (1990) 114

Mixed-alkali Effect
Computer Simulation 123 (1990) 324
Ionic Conductivity 123 (1990) 321
Nuclear Magnetic Resonance, Fluorides, Ionic Conductivity 123 (1990) 42

Molecular Dynamics
Glass Formation, Fabrication, Halide Glasses, Hydrogen Effects, Ion Treatment 123 (1990) 363
Halide Glasses, Silicates 123 (1990) 36
Structure, Glass Transition 123 (1990) 48

Mössbauer Effect
Ion Implantation, Thin Films 123 (1990) 427

Neutron Diffraction
Raman Spectra, Infra-red Absorption, Germania 123 (1990) 182
Structure, X-ray Diffraction 123 (1990) 71
X-ray Diffraction, Structure 123 (1990) 129

Nuclear Magnetic Resonance
Chalcogenides, Ionic Conductivity 123 (1990) 328
Fluorides, Mixed-alkali Effect, Ionic Conductivity 123 (1990) 42
Sol–Gel Method, Structure 123 (1990) 170
X-ray Absorption, Oxides, Chalcogenides, Semiconductors 123 (1990) 149

Optical Fibers
Raman Spectra, Silica 123 (1990) 223

Optical Properties
Defects, Alloys, Silicates 123 (1990) 234
Germanates, Phosphates, Infra-red Absorption, Electronic Conductivity 123 (1990) 339
Glass Formation, Electrical Properties and Relaxation 123 (1990) 285
Luminescence, Electronic Structure, Glasses Containing Transition Metal Ions 123 (1990) 271
Oxides 123 (1990) 240

Oxidation Reduction
Silicates 123 (1990) 354

Oxides
Crystallization, Electrochemical Properties, Silicates, Phosphates 123 (1990) 349
Ion Implantation, Sputtering, Crystallization 123 (1990) 432
Nuclear Magnetic Resonance, X-ray Absorption, Chalcogenides, Semiconductors 123 (1990) 149
Optical Properties 123 (1990) 240
Photoinduced Effects, Glasses Containing Transition Metal Ions, Luminescence 123 (1990) 258
Raman Spectra, Ionic Conductivity 123 (1990) 230
Silicates, Borates, X-ray Absorption, X-ray Diffraction, EXAFS, Structure 123 (1990) 1
Structure, Raman Spectra, X-ray Emission, X-ray Diffraction 123 (1990) 176

Phase Separation
Thermodynamics, Dielectric Properties 123 (1990) 197

Phosphates
Germanates, Optical Properties, Infra-red Absorption, Electronic Conductivity 123 (1990) 339
Oxides, Crystallization, Electrochemical Properties, Silicates 123 (1990) 349

Photoinduced Effects
Chalcogenides, X-ray Absorption, Structure 123 (1990) 295
Glasses Containing Transition Metal Ions, Luminescence, Oxides 123 (1990) 258

Porosity
Refractive Index, Light Scattering, Silicates 123 (1990) 266

Pressure Effects
Radiation Effects, Silica, Raman Spectra, Short-Range Order 123 (1990) 286

Quenching
Glass Transition, Crystallization, Silica, Germania 123 (1990) 90

Radiation Effects
Silica, Raman Spectra, Short-Range Order, Pressure Effects 123 (1990) 286

Raman Spectra
Infra-red Absorption, Borates 123 (1990) 283
Infra-red Absorption, Neutron Diffraction, Germania 123 (1990) 182
Ionic Conductivity, Oxides 123 (1990) 230
Optical Fibers, Silica 123 (1990) 223
Radiation Effects, Silica, Short-Range Order, Pressure Effects 123 (1990) 286
Structure, Oxides, X-ray Emission, X-ray Diffraction 123 (1990) 176

Refractive Index
Ion Exchange, Diffusion 123 (1990) 315
Porosity, Light Scattering, Silicates 123 (1990) 266

Relaxation
Theory, Glass Transition 123 (1990) 75

Semiconductors
Nuclear Magnetic Resonance, X-ray Absorption, Oxides, Chalcogenides 123 (1990) 149

Short-Range Order
Radiation Effects, Silica, Raman Spectra, Pressure Effects 123 (1990) 286

Silica
Computer Simulation, Chalcogenides 123 (1990) 22
Glass Transition, Crystallization, Germania, Quenching 123 (1990) 90
Lasers, Silicates, Luminescence 123 (1990) 208
Optical Fibers, Raman Spectra 123 (1990) 223
Radiation Effects, Raman Spectra, Short-Range Order, Pressure Effects 123 (1990) 286

Silicates
Borates, Oxides, X-ray Absorption, X-ray Diffraction, EXAFS, Structure 123 (1990) 1
Defects 123 (1990) 250
Hardness, Expansion, Glass Transition, Structure 123 (1990) 275
Ionic Conductivity, Thermal Conductivity, Transport Properties – Liquids 123 (1990) 400
Lasers, Silica, Luminescence 123 (1990) 208
Molecular Dynamics, Halide Glasses 123 (1990) 36
Optical Properties, Defects, Alloys 123 (1990) 234
Oxidation Reduction 123 (1990) 354
Oxides, Crystallization, Electrochemical Properties, Phosphates 123 (1990) 349
Porosity, Refractive Index, Light Scattering 123 (1990) 266
Stress Relaxation, Thermal Properties 123 (1990) 415
Viscosity 123 (1990) 344

Sol–Gel Method
Nuclear Magnetic Resonance, Structure 123 (1990) 170

Sputtering
Ion Implantation, Oxides, Crystallization 123 (1990) 432

Stress Relaxation
Thermal Properties, Silicates 123 (1990) 415

Structure
Chalcogenides, X-ray Absorption, Photoinduced Effects 123 (1990) 295
EXAFS, Halide Glasses 123 (1990) 291
Molecular Dynamics, Glass Transition 123 (1990) 48
Neutron Diffraction, X-ray Diffraction 123 (1990) 129
Nuclear Magnetic Resonance, Sol–Gel Method 123 (1990) 170
Oxides, Raman Spectra, X-ray Emission, X-ray Diffraction 123 (1990) 176
Silicates, Borates, Oxides, X-ray Absorption, X-ray Diffraction, EXAFS 123 (1990) 1
Silicates, Hardness, Expansion, Glass Transition 123 (1990) 275
Structure 123 (1990) 14
X-ray Diffraction, Neutron Diffraction 123 (1990) 71

Theory
Relaxation, Glass Transition 123 (1990) 75

Thermal Conductivity
Silicates, Ionic Conductivity, Transport Properties – Liquids 123 (1990) 400

Thermal Properties
Stress Relaxation, Silicates 123 (1990) 415

Thermodynamics
Phase Separation, Dielectric Properties 123 (1990) 197

Thin Films
Ion Implantation, Mössbauer Effect 123 (1990) 427

Transport Properties – Liquids
Silicates, Ionic Conductivity, Thermal Conductivity 123 (1990) 400

Viscosity
Silicates 123 (1990) 344

X-ray Absorption
Chalcogenides, Photoinduced Effects, Structure 123 (1990) 295
Nuclear Magnetic Resonance, Oxides, Chalcogenides, Semiconductors 123 (1990) 149
Silicates, Borates, Oxides, X-ray Diffraction, EXAFS, Structure 123 (1990) 1

X-ray Diffraction
Neutron Diffraction, Structure 123 (1990) 129
Silicates, Borates, Oxides, X-ray Absorption, EXAFS, Structure 123 (1990) 1
Structure, Neutron Diffraction 123 (1990) 71
Structure, Oxides, Raman Spectra, X-ray Emission 123 (1990) 176

X-ray Emission
Structure, Oxides, Raman Spectra, X-ray Diffraction 123 (1990) 176